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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/696,086	10/28/2003	Andreas Ganghofer	14399Z	5957		
23389	7590 06/14/2005		EXAM	EXAMINER		
	COTT MURPHY & PRES	ELLIS, S	ELLIS, SUEZU Y			
SUITE 300	I CITY PLAZA	ART UNIT	PAPER NUMBER			
GARDEN CITY, NY 11530			2878	2878		
			DATE MAILED: 06/14/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

					<u> </u>			
		Application	on No.	Applicant(s)				
Office Action Summary		10/696,08	86	GANGHOFER, ANDRE	EAS			
		Examiner		Art Unit				
		Suezu Elli	s	2878				
Period fo	The MAILING DATE of this communior Reply	cation appears on the	cover sheet with the	correspondence addres	s			
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNIC INSIGNS of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commit is period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply is reply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no ever unication. of days, a reply within the state tutory period will apply and wi will, by statute, cause the app	ent, however, may a reply be utory minimum of thirty (30) d Il expire SIX (6) MONTHS fro ication to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communities NED (35 U.S.C. § 133).	nication.			
Status								
1) 又	Responsive to communication(s) filed	d on 28 October 200	3.					
2a)□		b) This action is n						
3)□								
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) 1-7 is/are pending in the ap 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 1-7 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict	e withdrawn from co						
Applicat	ion Papers							
10)⊠	The specification is objected to by the The drawing(s) filed on <u>28 October 20</u> Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	003 is/are: a) ☐ acception to the drawing(s) the correction is required.	ne held in abeyance. Some of the drawing(s) is one	see 37 CFR 1.85(a). objected to. See 37 CFR 1				
Priority	under 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim to All b) Some * c) None of: 1. Certified copies of the priority of the priority of the certified copies of the priority of the certified copies of the priority of the certified copies of the cer	documents have bee documents have bee of the priority documenal Bureau (PCT Rul	n received. n received in Applica ents have been rece e 17.2(a)).	ation No ived in this National Sta	ge			
2) Noti 3) Info	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (P mation Disclosure Statement(s) (PTO-1449 or er No(s)/Mail Date		4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:		2)			

DETAILED ACTION

Page 2

Priority

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Germany on May 25, 2000. It is noted, however, that applicant has not filed a certified copy of the 100 25 962.6 application as required by 35 U.S.C. 119(b).

Information Disclosure Statement

The information disclosure statement (IDS) submitted on October 28, 2003 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the optronic fuse system comprising a transmitter, a receiver, an amplifier chain, and a sensor connected ahead of the receiver and of the amplifier chain (preamble of claim 1) must be shown or the features canceled from the claims. No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate

prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for

Page 3

consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With respect to claim 1, it is unclear what an "comprising effecting in a single calibration cycle" is. For examining purposes, that portion of the claim will be treated as a method comprising a calibration cycle.

With respect to claim 2, it is unclear as to what a medium measured value is. Is this different from the measured signal level (claims 1 and 3)? What is considered the

Art Unit: 2878

medium? Please clarify. For examining purposes, a medium measured value will be treated equivalent to the measured signal level in claims 1 and 3.

With respect to claim 7, it is unclear as to what a medium gain factor is. Is this different from the gain factor in claim 3? What is the medium? Please clarify. For examination purposes, the medium gain factor will be considered the same as the gain factor in claim 3.

Claims not specifically addressed are indefinite due to their dependency on an indefinite claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Nourrcier, Jr. (US 5,638,163).

With respect to claim 1, Nourrcier, Jr. discloses in Fig. 1, a laser range finder comprising a transmitter (laser module – 115), a receiver (16), an amplifier chain (transpedance amplifier 317 and a post-amplifier 155), and a sensor (avalanche photodiode photodetector - 315) which is the first component of the receiver and before the amplifier chain. Nourrcier, Jr. discloses measuring a temperature signal from a

Application/Control Number: 10/696,086 Page 5

Art Unit: 2878

temperature sensor (319) and adjusting the bias voltage of the APD, thus resulting in optimum sensitivity over the temperature range (col. 15, lines 25-33; col. 16, lines 3-9).

With respect to claim 2, Nourrcier, Jr. discloses measuring a temperature signal and performing temperature compensation (col. 10, lines 50-58).

With respect to claim 3, Nourrcier, Jr. discloses a microcontroller that adjusts the APD bias in response to a signal from the temperature sensor (col. 15, lines 25-30).

Nourrcier, Jr. further discloses a correlation between the bias voltage and the gain wherein increasing the bias voltage increases the gain.

With respect to claim 4, Nourrcier, Jr. discloses the sensor comprises an avalanche-photodiode (APD) where the APD has a bias voltage set by the microcontroller.

With respect to claim 5, Nourrcier, Jr. discloses the bias voltage is set dependent upon the temperature (col. 16, lines 6-9).

With respect to claim 7, Nourrcier, Jr. discloses a microcontroller that adjusts the APD bias in response to a signal from the temperature sensor (col. 15, lines 25-30). Nourrcier, Jr. further discloses a correlation between the bias voltage and the gain wherein increasing the bias voltage increases the gain. Thus, the microcontroller sets the gain of the APD photodetector. Nourrcier, Jr. further discloses the microcontroller is a programmed processor with a software-driven architecture, thus an operating software system is inherent (col. 1, 62-63; col. 15, lines 62-63).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title; if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nourrcier, Jr. in view of Lau et al. (US 4,153,835). Hereinafter, Lau et al. will be referred to as Lau.

With respect to claim 6, Nourrcier, Jr. addresses all the limitations of claims 1 and 4, however fails to expressly disclose the step of compensating for temperature variation based on the sensor's temperature curve. Nourrcier, Jr. and Lau are directed to a similar problem solving area of temperature compensation. Lau teaches it is well known in the art to reference a component's temperature cure when performing temperature-based compensation (col. 3, lines 39-48). It would have been obvious to a person of ordinary skill in the art to modify the system of Nourrcier, Jr. by basing the temperature compensation operation directly on the sensor's temperature curve because it would facilitate more accurate biasing of the sensor.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Anderson (US 929,982) discloses an APD gain control for an optical receiver.

Application/Control Number: 10/696,086 Page 7

Art Unit: 2878

Motzko et al. (GB 2394269 A) discloses a proximity fuse with a laser range finder.

Telephone/Fax Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suezu Ellis whose telephone number is 571-272-2868.

The examiner can normally be reached on 8:30am-7pm (Monday-Thursday).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Porta can be reached on 571-272-2444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stephone B. Allen Primary Examiner